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GP 2812
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E. Willis
3-18-03

April 3, 2002

To: Commissioner of Patents and Trademarks
Washington, D.C. 20231

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TECHNOLOGY CENTER 2800

APR 17 2002

RECEIVED

Subject:

Serial No. 10/082,024 02/21/02

Chung-Ju Hsieh et al.

REAL-TIME DETECTION MECHANISM WITH
SELF-CALIBRATED STEPS FOR THE HARD-
WARE BASELINE TO DETECT THE
MALFUNCTION OF LIQUID VAPORIZATION
SYSTEM IN AMAT TEOS-BASED Dxz CHAMBER

Grp. Art Unit: 2812

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56. Copies of each document is included herewith.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
mail in an envelope addressed to: Commissioner of Patents and
Trademarks, Washington, D.C. 20231, on April 10, 2002.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

SB Ackerman 4/10/02

U.S. Patent 5,531,183 to Sivaramakrishnam et al., "Vaporization Sequency for Multiple Liquid Precursors Used in Semiconductor Thin Film Applications," discloses a vaporization sequency for multiple liquid precursors used in semiconductor thin film applications.

U.S. Patent 6,179,277 to Huston et al., "Liquid Vaporizer Systmes and Methods for Their Use," provides for improved liquid vaporizer systems and methods for their use.

U.S. Patent 5,925,189 to Nguyen et al., "Liquid Phosphorous Precursor Delivery Apparatus," describes an apparatus by AMAT, namely, a liquid phosphorous precursor delivery apparatus.

Sincerely,

A handwritten signature in black ink, appearing to be 'SBA', written over a horizontal line.

Stephen B. Ackerman,
Reg. No. 37761